CONTENTS

Volume 24, Issue Nos 1–4

GEOLOGICAL JOURNAL

Issue No. 1, January–March 1989

The Clew Bay Group: A Displaced Terrane of Highland Border Group Rocks (Cambro-Ordovician) in Northwest Ireland: M. D. Max 1

Genesis of Fragmental Rocks in the Mesozoic and Tertiary of Mallorca Spain: A. E. Adams 19

The Distribution of Chadian and Earliest Arundian Strata in North Wales: Implications for Dinantian (Carboniferous) Lithostratigraphy and Palaeogeography: J. S. Davies, N. J. Riley and D. Wilson 31

Chadian Faunas and Flora from Dyserth: Depositional Environments and Palaeogeographic Setting of Viséan Strata in Northeast Wales: I. D. Somerville, A. R. E. Strank and A. Welsh 49

SHORT COMMUNICATION

A Reply to D. K. Graham Regarding the Validity of the Carboniferous Fenestrate Bryozoan Genus LANARKOPORA Graham (1975): A. J. Bancroft 67

Note on the Carboniferous Bryozoan Taxon *Lanarkopora Carbonaria (Etheridge jun.)*: D. K. Graham 69

Ostracods and Foraminifera from the Pleistocene Knocknasilloge Member, County Wexford, Ireland: D. J. Horne and P. Kerr 71

BOOK REVIEWS 75

Issue No. 2, April–June 1989

Revised and Supplemented Data on Gibbs' Free Energies of Substances at the Parameters of the Earth's Mantle: I. A. Ostrovsky 83

A Composite Spessartite–appinite Intrusion from Port-na-Blagh, County Donegal, Ireland: R. Elsdon and S. P. Todd 97

Indexed or abstracted by 'Current Contents', 'Cambridge Scientific Abstracts', 'Chemical Abstracts Service', 'Geo Abstracts', 'INSPEC', 'International Bibliography of Periodical Literature', 'International Petroleum Abstracts' and 'Oceanographic Literature Review'

The Longmyndian Rocks of the Old Radnor Inlier, Welsh Borderland: N. H. Woodcock and J. C. Pauley 113

Allocycles and Autocycles in the Upper Part of the Limestone Coal Group (Pendleian E1) in the Glasgow–Stirling Region of the Midland Valley of Scotland: W. A. Read and I. H. Forsyth 121

A New Interpretation of the Corallian (Upper Jurassic) Cycles of the Dorset Coast, Southern England: S. Q. Sun 139

BOOK REVIEWS 159

Issue No. 3, July–September 1989

Environmental Changes in the Hirnantian (upper Ordovician) of the Prague Basin, Czechoslovakia: P. J. Brenchley and P. Štorch 165

Wrench Faults, Pull-apart Basins, and Volcanism in Central Oregon: a New Tectonic Model Based on Image Interpretation: J. C. Gutmanis 183

Sedimentation in a Meandering Gravel-bed River: the River Tywi, South Wales: S. A. Smith 193

The Cherty Rock, Elgin: A Petrographic and Isotopic Study of a Permo-Triassic Calcrete: H. Naylor, P. Turner, D. J. Vaughan and A. E. Fallick 205

SHORT COMMUNICATIONS

Reply on the Age of the Oughterard Granite, Connemara, Ireland: P. S. Kennan, M. Feely and P. Mohr 223

The Naming of the Sandstones at Billinge Beacon: F. M. Broadhurst 227

BOOK REVIEWS 229

Issue No. 4, October–December 1989

Palaeoecology and Significance of Barnacles in the Mid-Pliocene *Balanus* Bed of Tobago, West Indies: S. K. Donovan 239

Magmatic Evolution of the Løkken SSZ Ophiolite, Norwegian Caledonides: Relationships Between Anomalous Lavas and High-level Intrusions: T. Grenne 251

Diagenesis of the Gully Oolite (Lower Carboniferous), South Wales: A. Searl 275

Deposition and Palaeoecology of an Upper Silurian Stromatoporoid Reef on Southernmost Gotland, Sweden: A. Kano 295

Reappraisal of the 'Cullenstown Formation': Implications for the Lower Palaeozoic Tectonic History of SE Ireland: M. C. Bennett, W. M. Dunne and S. P. Todd 317

A Palaeomagnetic Study of the Charnian, Caldecote, and Uriconian Volcanics and Plutons, Central England: J. D. A. Piper and T. M. Strange .. 331

The Cowms Rocks Landslide: R. H. Johnson and R. D. Vaughan. 359

SHORT COMMUNICATIONS

Discussion of the Paper 'Late Pan-African Magmatism and Crustal Development in Northeastern Egypt': R. J. Stern and D. Gottfried. 371

Late Pan-African Magmatism and Crustal Development in Northeastern Egypt: Reply: Abdel-Fattah M. Abdel-Rahman and R. F. Martin. 375

BOOK REVIEWS. 383

AUTHOR INDEX. 385

KEYWORD INDEX. 385